PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 59395WO005	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2004/000976	International filing date (day/month/year) 15 January 2004 (15.01.2004)	Priority date (day/month/year) 17 January 2003 (17.01.2003)]
International Patent Classification (IPG G02B 7/00, 5/30, 5/02	C) or national classification and IPC	
Applicant 3M INNOVATIVE PROPERTIES C	COMPANY	

1.	This international preliminary re International Searching Authorit	port on patentability (Chapter I) is issued by the International Bureau on behalf of the y under Rule 44 bis.1(a).
2.	This REPORT consists of a total	of 6 sheets, including this cover sheet.
	_	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indications:	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority
		Date of issuance of this report 22 July 2005 (22.07.2005)

Authorized officer

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Form PCT/IB/373 (January 2004)

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PATENT COOPERATION TREATY

REC'D 0 3 JUN 2004

From the INTERNATIONAL	SEARCHING AUTHORITY

WIPO

To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY see form PCT/ISA/220 (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below see form PCT/ISA/220 Priority date (day/month/year) International filing date (day/month/year) International application No. 17.01.2003 15.01.2004 PCT/US2004/000976 International Patent Classification (IPC) or both national classification and IPC G02B7/00, G02B5/30, G02B5/02 **Applicant** 3M INNOVATIVE PROPERTIES COMPANY

1.	This opinion cor	ntains indications relating to the following items:
	⊠ Box No. I	Basis of the opinion
	☑ Box No. II	Priority It is the standard industrial applicability
	☐ Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	☐ Box No. IV	Lack of unity of invention
	⊠ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	☐ Box No. VI	Certain documents cited
	☐ Box No. VII	Certain defects In the international application
	☐ Box No. VIII	Certain observations on the international application
2	FURTHER ACT	ION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority

lf this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

9)

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Casse, M

Telephone No. +49 89 2399-2769



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/000976

	Box I	No. I Basis of the opinion
1.	With I	egard to the language, this opinion has been established on the basis of the international application in nguage in which it was field, unless otherwise indicated under this item.
	lí	This opinion has been established on the basis of a translation from the original language into the following anguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).
2.	With neces	regard to any nucleotide and/or amino acid sequence disclosed in the international application and ssary to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of material:
		a sequence listing
		table(s) related to the sequence listing
	b. for	mat of material:
		in written format
		in computer readable form
	c. tin	ne of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3	s. 🗆	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/US2004/000976

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E	Вох	No. II	Priority							<u>.</u>
1. 🛭	X	The fol	lowing document	has not beer	furnished	•				
		\boxtimes	copy of the earlie	er application	whose pri	ority has been	claimed (Ru	le 43 <i>bis</i> .1 a	and 66.7(a)).	
			translation of the	earlier appli	cation who	se priority has	oeen claime	d (Rule 43)	bis.1 and 66.7(b)).
		Conse	quently it has not reless been estal	been possibl	e to conside assumpti	der the validity on that the rele	of the priority vant date is	claim. Thi the claimed	s opinion has d priority date.	
2. [This or	oinion has been e	stablished as Rules 43 <i>bis</i> .	s if no prior 1 and 64.1). Thus for the p	ourposes of	the fact th	at the priority on, the internation	claim mal
		filing d	ate indicated abo	ve is conside	red to be t	he relevant date	9.			
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3 . <i>i</i>	Add	filing d	ate indicated abo	ve is conside	red to be t	he relevant dat	9.			
3. 4	Add	filing d	ate indicated abo	ve is conside	red to be t	he relevant dat	2.			•
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	Bo	filing d	ate indicated abo	ve is conside ecessary:	red to be t	he relevant date	regard to	novelty, in		,
	Bo:	filing d	ate indicated about the observations, if no servations, if no servations are served at a s	ve is conside ecessary:	red to be t	he relevant date	regard to	novelty, in		,
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1.	Bo ind Sta No	filing ditional ditional ditional distribution with the second of the se	Reasoned sta	ve is conside ecessary: Itement und ations and expressions and expressions. Yes: Yes:	er Rule 43 explanatio Claims Claims Claims	he relevant date he relevant date he supporting 6,8-10 1-5,7	regard to	novelty, in		,

see separate sheet

PCT/US04/00976

Re Item V

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Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-2 905 757 D2: US-A-2 242 567 D3: US-A-2 444 520

- 1.) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 is not new in the sense of Article 33(2) PCT.
- 1.1) The document **D1** discloses (the references in parentheses applying to this document) in figures 1, 2 and 3 with the corresponding description passages:

An optical film structure disposed on a light transmission surface of an illumination unit (1,2,3), for modulating light emitted from said illumination unit and projecting modulated light, comprising:

at least one optical film (24,29);

at least four optical film fixing parts (26) disposed at an outer peripheral portion of said optical film;

a film tension controlling member (27,28) attached at one of the ends thereof to each of said film fixing parts in such a fashion as to be capable of pulling said optical film under tension while maintaining flatness of said optical film; and

a film fixing frame 25 for fixing said optical film, connected to the other end of said film tension controlling member;

wherein said optical film, said film tension controlling member and said film fixing frame are integrated with one another and are constituted into one component.

The filter component shown in figure 2 of D1 present thus all the characteristics of the subject matter of claim 1.

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- 1.2) The diffusion screen shown in figure 3 of D2 similarly shows an optical film (18) stretched by film tension controlling members (17) onto a frame 16.
 - D3 also shows a polarizing film 20 stretched on a frame 10 through spring hooks 16.
 - D2 and D3 also question the novelty of claim 1
- 2.) Dependent claims 2 to 10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step for the following reasons.
 - Claim 2: D2 includes a light diffusion film, D3 is a polarizer and the film of D1 could be regarded as a luminance improving film.
 - Claims 3 and 4: The film tensioning member 17 in D2 is an elastic rubber cord and in D3 tabs 16 are equivalent to springs.
 - Claim 5: The stacking of optical filters is a common practice in the art and is shown in figure 5 of D3.
 - Claims 6, 8, 9 and 10: Even if D1, D2 and D3 significantly predate the liquid crystal display technology, the claims in question merely define only the use of the film structure defined in claim 1 in different LCD applications without defining any further features specific to the filter assembly itself. In other words, the claims only define a known use for a filter in a LCD without specifying any features solving a new problem for the application in question. Hence the inventive activity appears questionable for these claims.
 - Claim 7: Both filters of D1 and D2 are used in combination with illumination units (1,2,3 in D1, implicit in D2 as the screen is used in transmission with a rear projector as an "illumination" unit).